

executed on processor 12 carry out the operations depicted in the flowchart described herein. Alternatively, the steps of the present invention might be performed by specific hardware components that contain hardwire logic for 5 performing the steps, or by any combination of programmed computer components and custom hardware components.

Further, multiple peripheral components may be added to computer system 10. For example, a display 24 is also attached to bus 22 for providing visual, tactile or other 10 graphical representation formats. Audio output through a speaker or other audio projection device may be controlled by audio output device 28 attached to bus 22. A keyboard 26 and cursor control device 30, such as a mouse, track ball, or cursor direction keys, are coupled to bus 22 as 15 interfaces for user inputs to computer system 10. It should be understood that keyboard 26 and cursor control device 30 are examples of multiple types of input devices that may be utilized in the present invention. In alternate embodiments of the present invention, additional input and output 20 peripheral components may be added.

The present invention may be provided as a computer program product, included on a machine-readable medium having stored thereon the machine executable, i.e., readable, instructions used to program computer system 10 to perform a 25 process according to the present invention. The term "machine-readable-medium" as used herein includes any medium that participates in providing instructions to processor 12 or other components of computer system 10 for execution. Such a medium may take many forms including, but not limited 30 to, nonvolatile media <sup>and</sup> volatile media, ~~and transmission~~

media. Common forms of nonvolatile media include, for example, a floppy disk, a flexible disk, a hard disk, magnetic tape or any other magnetic medium, a compact disc ROM (CD-ROM), a digital video disc-ROM (DVD-ROM) or any 5 other optical medium, punch cards or any other physical medium with patterns of holes, a programmable ROM (PROM), an erasable PROM (EPROM), electrically EPROM (EEPROM), a flash memory, any other memory chip or cartridge, or any other medium from which computer system 10 can read and which is 10 suitable for storing instructions. In the present embodiment, an example of nonvolatile media is storage device 18. Volatile media includes dynamic memory such as RAM 14. ~~Transmission media includes coaxial cables, copper wire or fiber optics, including the wires that comprise bus 15 22. Transmission media can also take the form of acoustic or light waves, such as those generated during radio wave or infrared data communications.~~

Moreover, the present invention may be downloaded as a computer program product, wherein the program instructions 20 may be transferred from a remote computer such as server 39 to requesting computer system 10 by way of data signals embodied in a carrier wave or other propagation medium via a network link 34 (e.g., a modem or network connection) to a communications interface 32 coupled to bus 22. 25 Communications interface 32 provides a two-way data communications coupling to network link 34 that may be connected, for example, to a local area network (LAN), wide area network (WAN), or as depicted herein, directly to an Internet Service Provider (ISP) 37. In particular, network